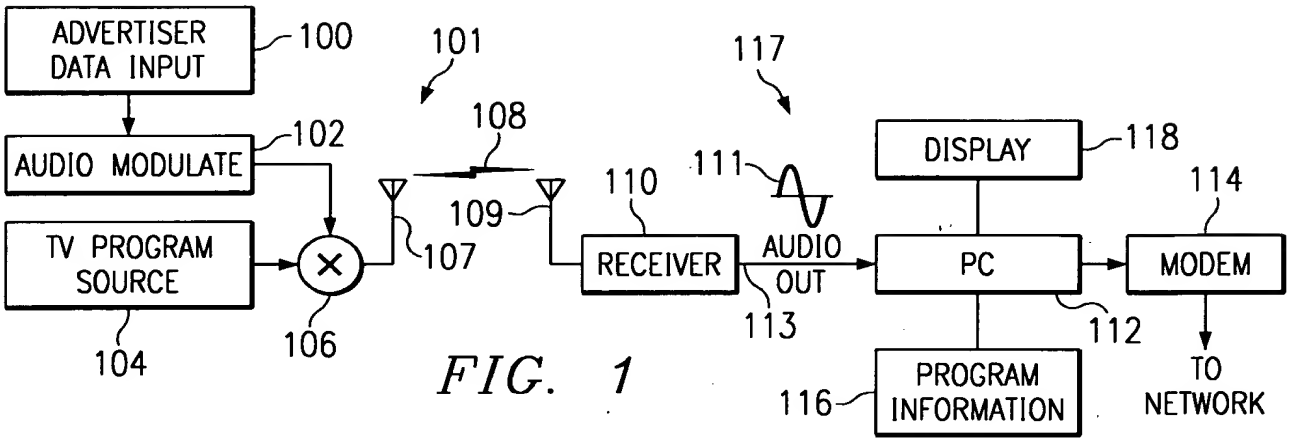


FIG. 1

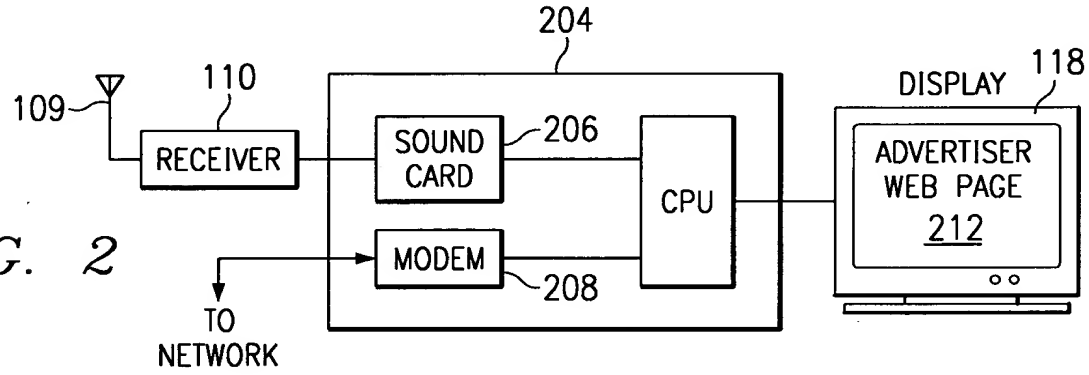


FIG. 2

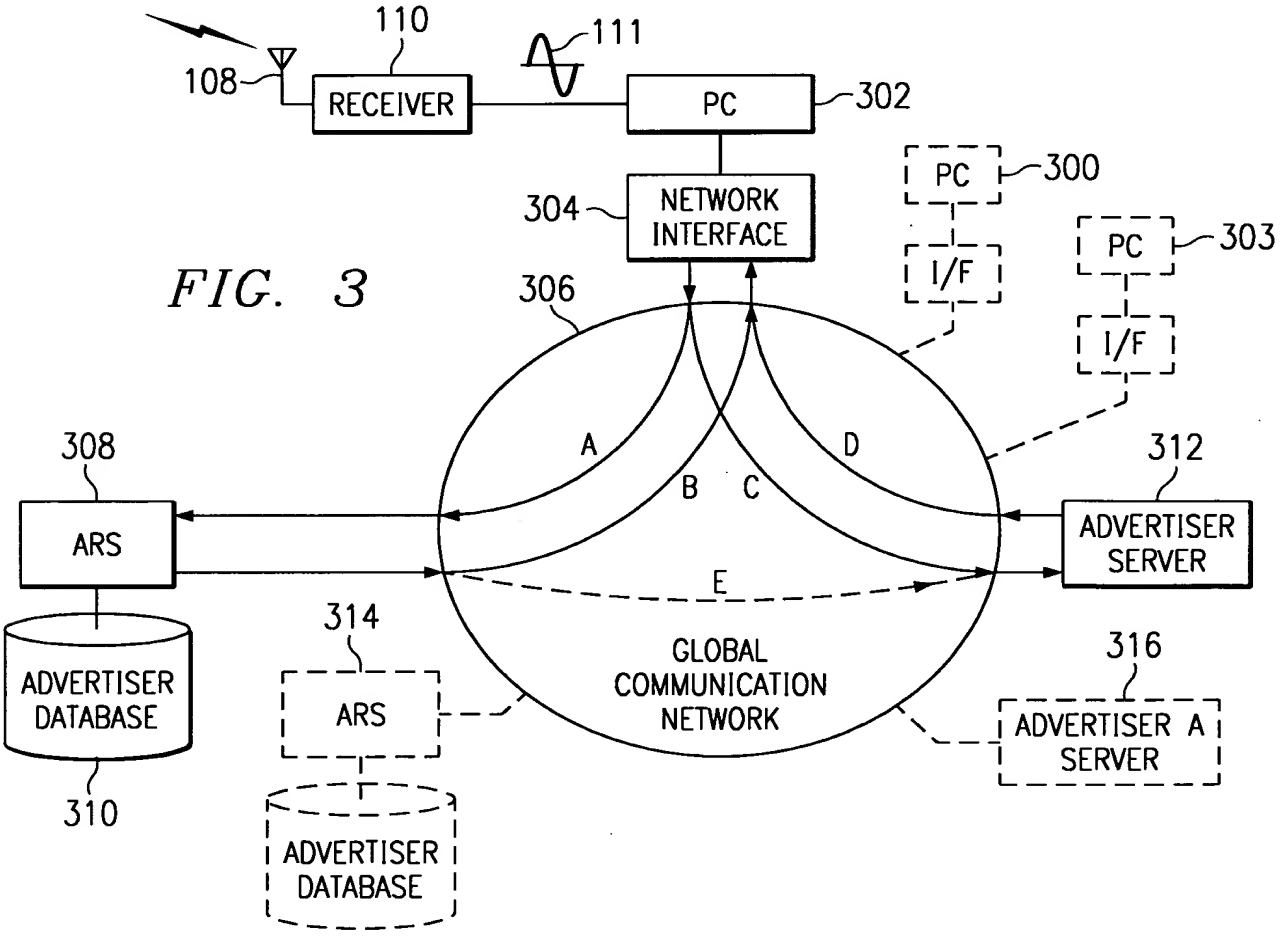


FIG. 3

PATH A: SOURCE TO ARS

400	URL OF ARS	ADVERTISER PRODUCT CODE	URL OF SOURCE

FIG. 4a

PATH B: ARS TO SOURCE

402	URL OF SOURCE	URL OF ADVERTISER	URL OF ARS

FIG. 4b

PATH C: SOURCE TO ADVERTISER

404	URL OF ADVERTISER	REQUEST-FOR-INFORMATION	URL OF SOURCE

FIG. 4c

PATH D: ADVERTISER TO SOURCE

406	URL OF SOURCE	REQUESTED INFORMATION	URL OF ADVERTISER

FIG. 4d

PATH E: ARS TO ADVERTISER (OPTIONAL)

408	URL OF ADVERTISER	REQUEST FOR INFORMATION	URL OF SOURCE

FIG. 4e

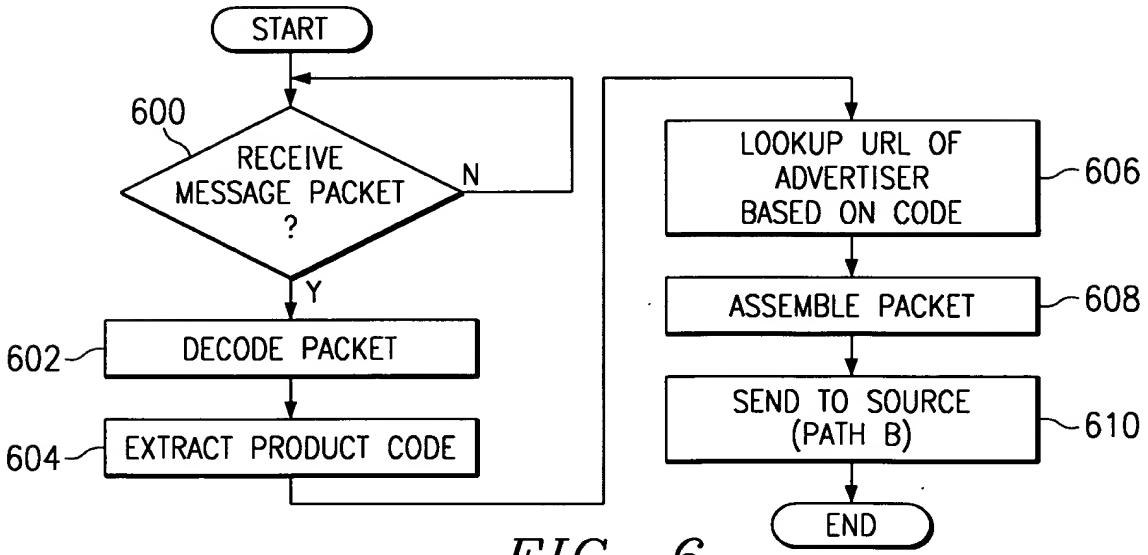


FIG. 6

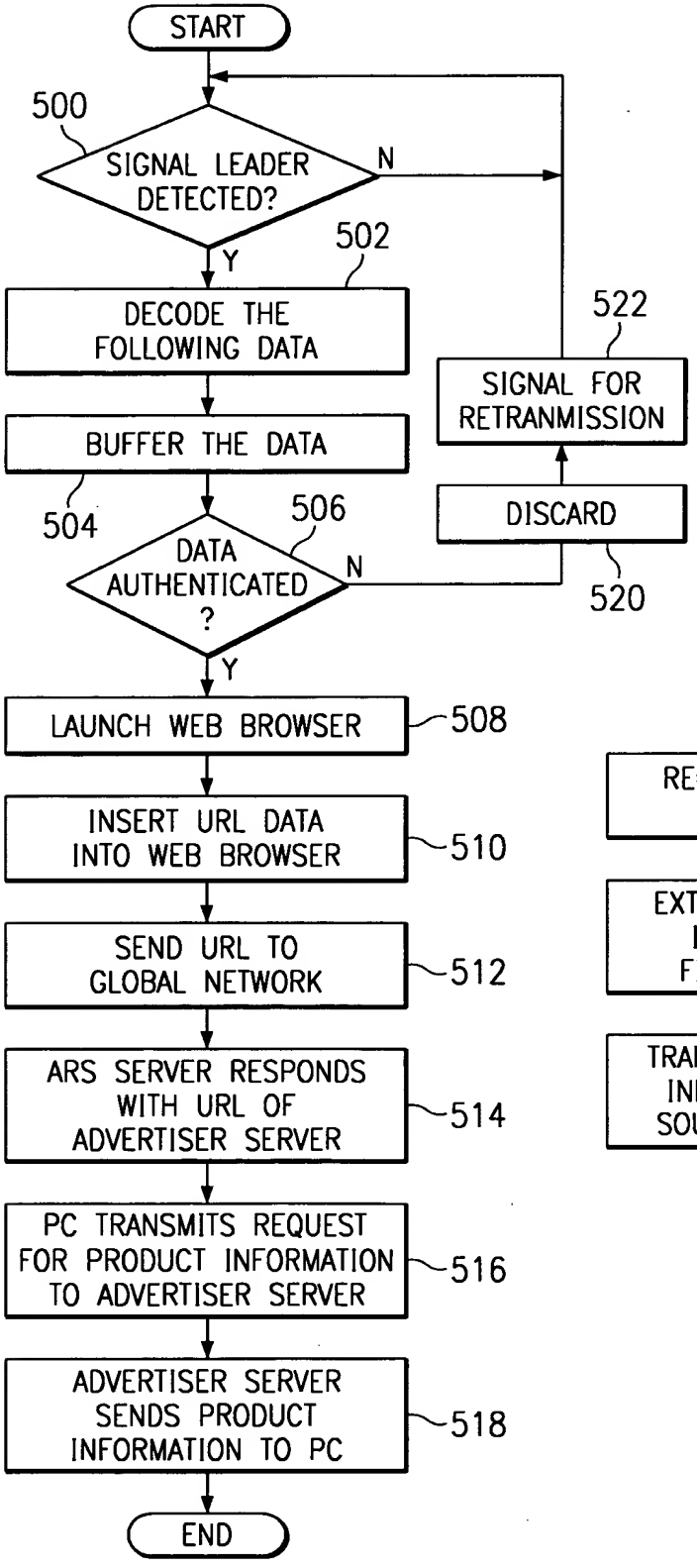

START
500
SIGNAL LEADER DETECTED?
N
Y
502
DECODE THE FOLLOWING DATA
BUFFER THE DATA
504
506
DATA AUTHENTICATED ?
N
Y
522
SIGNAL FOR RETRANMISSION
DISCARD
520
LAUNCH WEB BROWSER
508
INSERT URL DATA INTO WEB BROWSER
510
SEND URL TO GLOBAL NETWORK
512
ARS SERVER RESPONDS WITH URL OF ADVERTISER SERVER
514
PC TRANSMITS REQUEST FOR PRODUCT INFORMATION TO ADVERTISER SERVER
516
ADVERTISER SERVER SENDS PRODUCT INFORMATION TO PC
518
END

FIG. 5

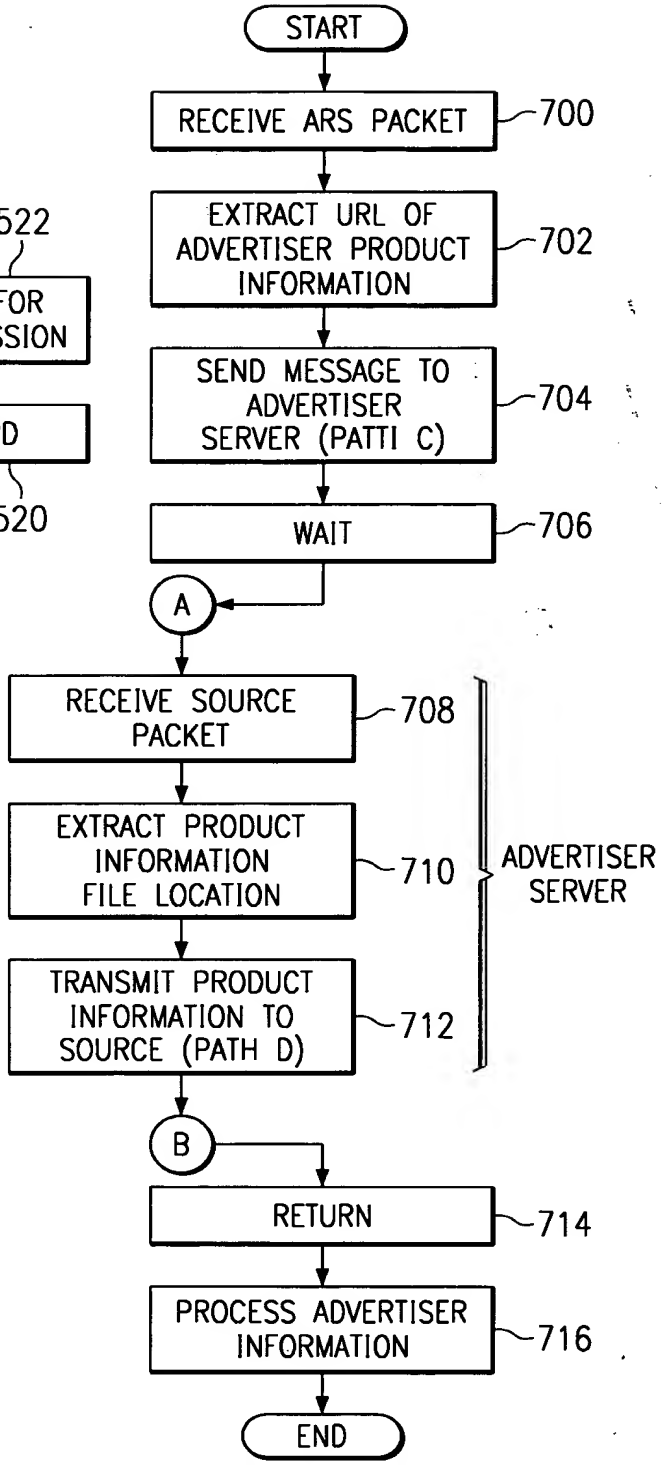

START
RECEIVE ARS PACKET
700
EXTRACT URL OF ADVERTISER PRODUCT INFORMATION
702
SEND MESSAGE TO ADVERTISER SERVER (PATTI C)
704
WAIT
706
A
RECEIVE SOURCE PACKET
708
EXTRACT PRODUCT INFORMATION FILE LOCATION
710
TRANSMIT PRODUCT INFORMATION TO SOURCE (PATH D)
712
ADVERTISER SERVER
B
RETURN
714
PROCESS ADVERTISER INFORMATION
716
END

FIG. 7

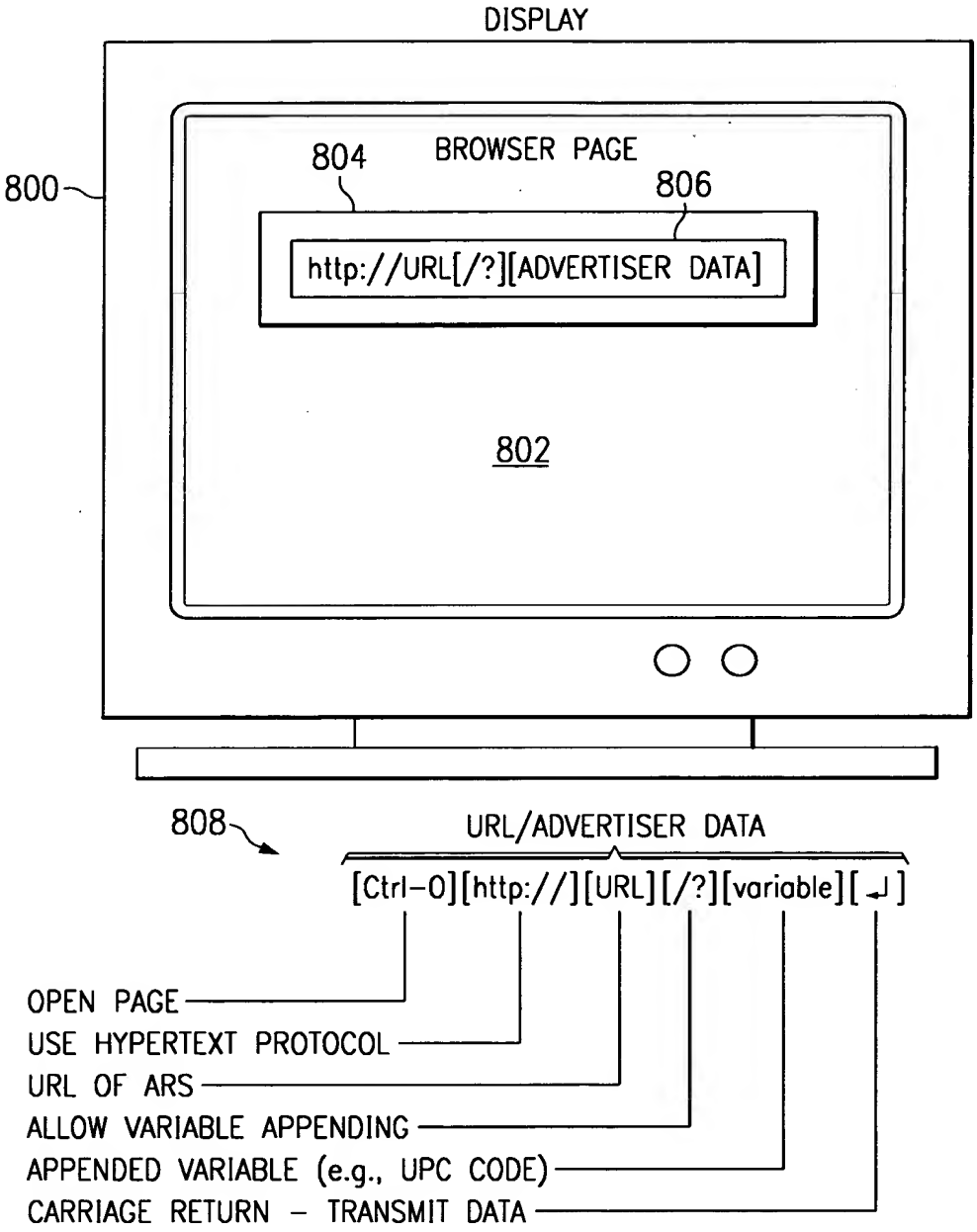

DISPLAY
800
804
BROWSER PAGE
806
http://URL[/?][ADVERTISER DATA]
802
808
URL/ADVERTISER DATA
[Ctrl-O][http://][URL][/?][variable][↵]
OPEN PAGE
USE HYPERTEXT PROTOCOL
URL OF ARS
ALLOW VARIABLE APPENDING
APPENDED VARIABLE (e.g., UPC CODE)
CARRIAGE RETURN – TRANSMIT DATA

FIG. 8

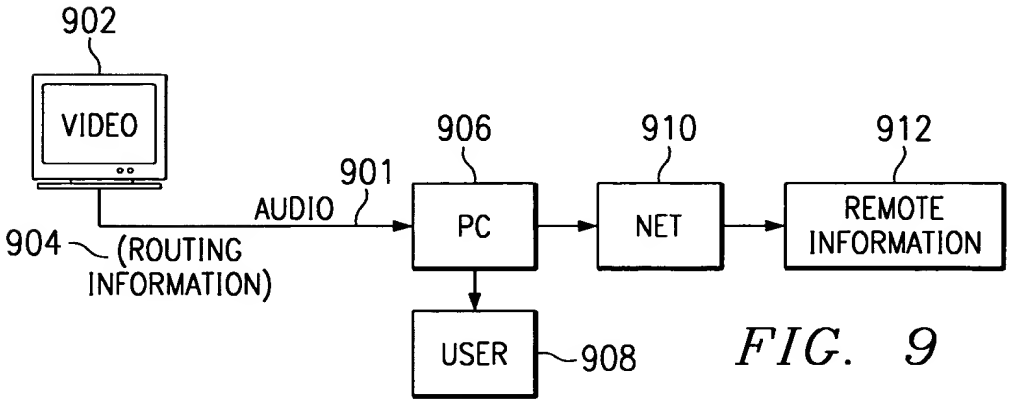

902
VIDEO
906
910
912
901
AUDIO
PC
NET
REMOTE INFORMATION
904
(ROUTING INFORMATION)
USER
908

FIG. 9

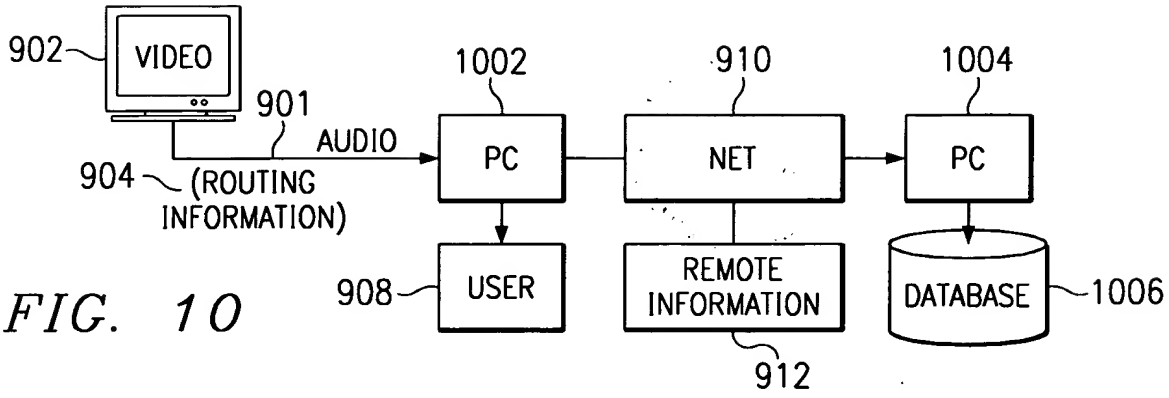


FIG. 10

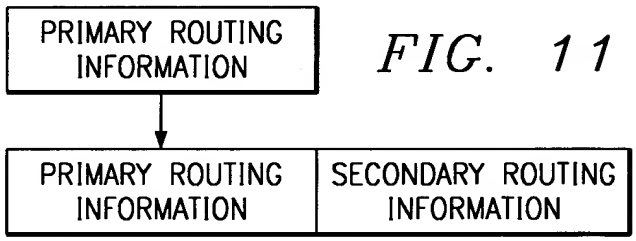


FIG. 11

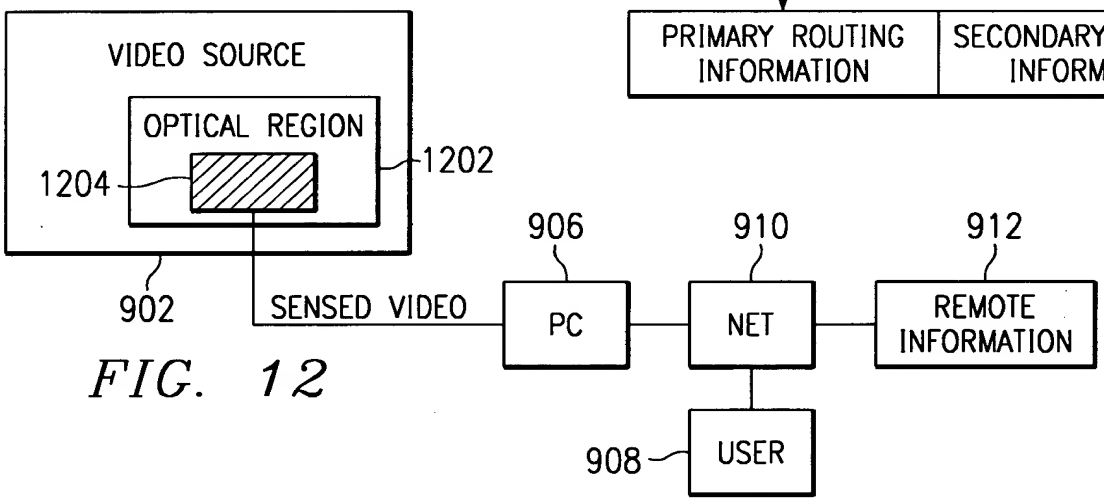


FIG. 12

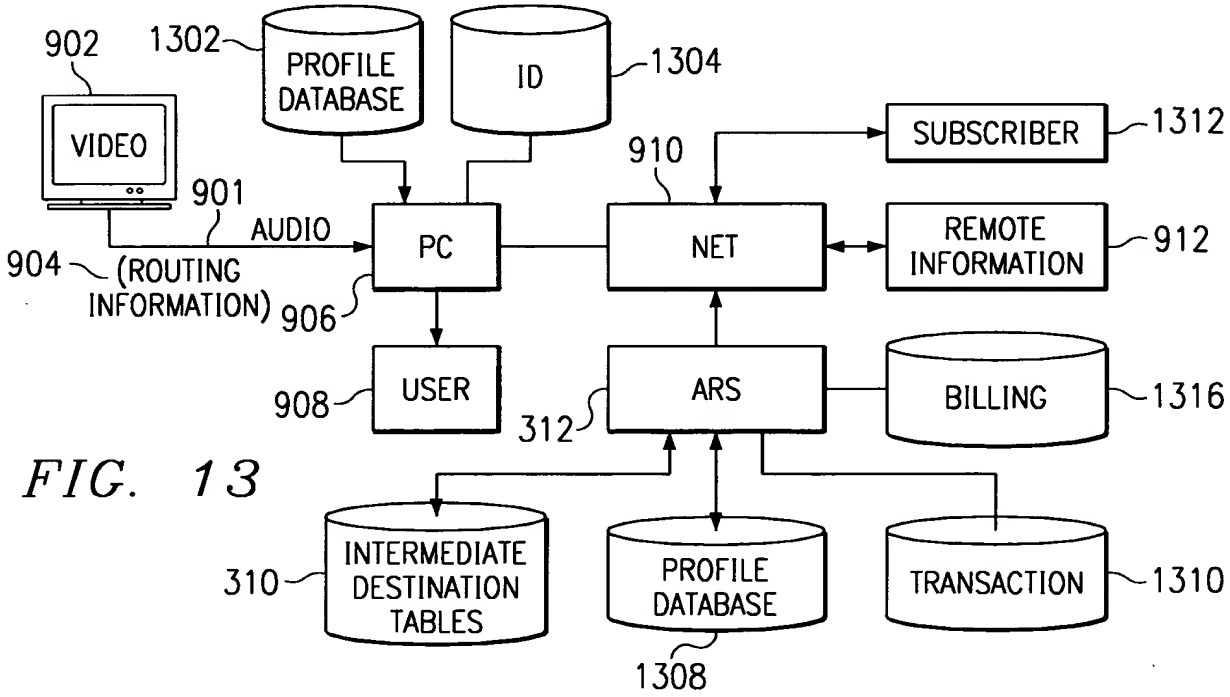


FIG. 13

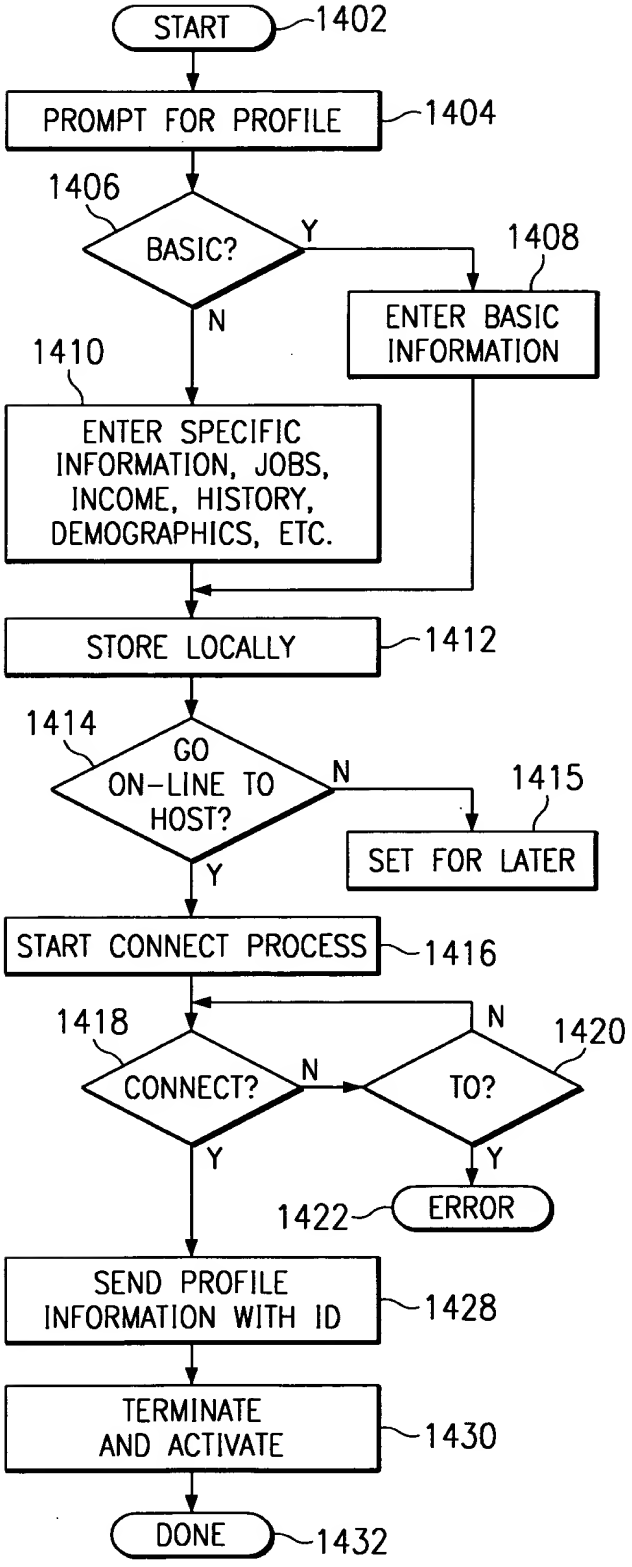

START
1402
PROMPT FOR PROFILE
1404
1406
BASIC?
Y
N
1408
ENTER BASIC INFORMATION
1410
ENTER SPECIFIC INFORMATION, JOBS, INCOME, HISTORY, DEMOGRAPHICS, ETC.
STORE LOCALLY
1412
1414
GO ON-LINE TO HOST?
N
Y
1415
SET FOR LATER
START CONNECT PROCESS
1416
1418
CONNECT?
N
Y
1420
TO?
N
Y
1422
ERROR
SEND PROFILE INFORMATION WITH ID
1428
TERMINATE AND ACTIVATE
1430
DONE
1432

FIG. 14

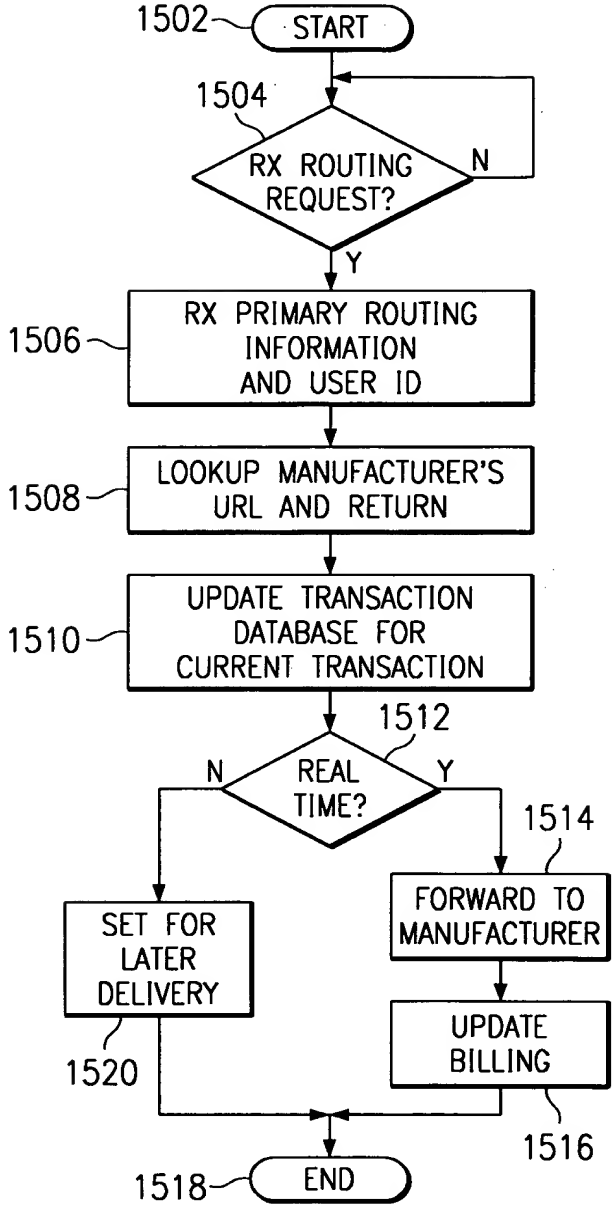

1502
START
1504
RX ROUTING REQUEST?
N
Y
1506
RX PRIMARY ROUTING INFORMATION AND USER ID
1508
LOOKUP MANUFACTURER'S URL AND RETURN
1510
UPDATE TRANSACTION DATABASE FOR CURRENT TRANSACTION
1512
REAL TIME?
N
Y
1514
SET FOR LATER DELIVERY
1520
FORWARD TO MANUFACTURER
UPDATE BILLING
1516
1518
END

FIG. 15

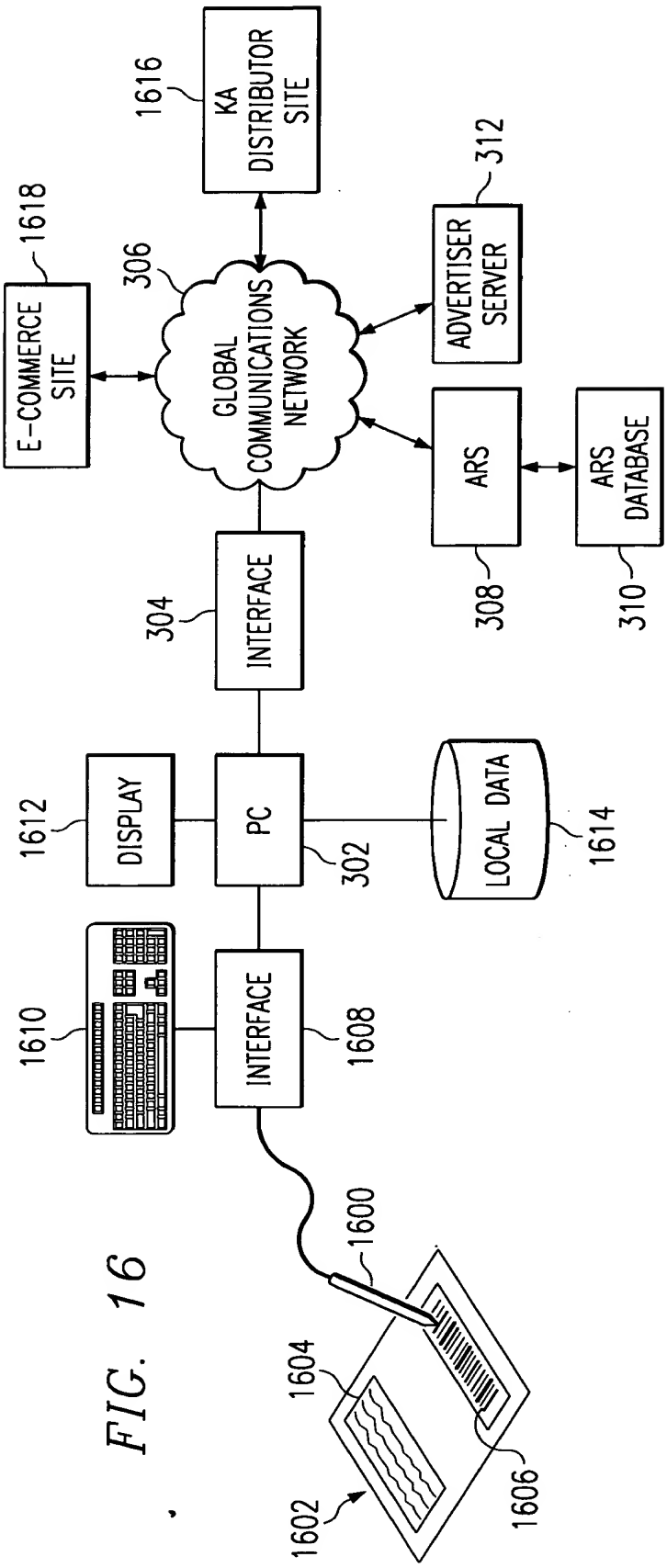


FIG. 16

FIG. 18

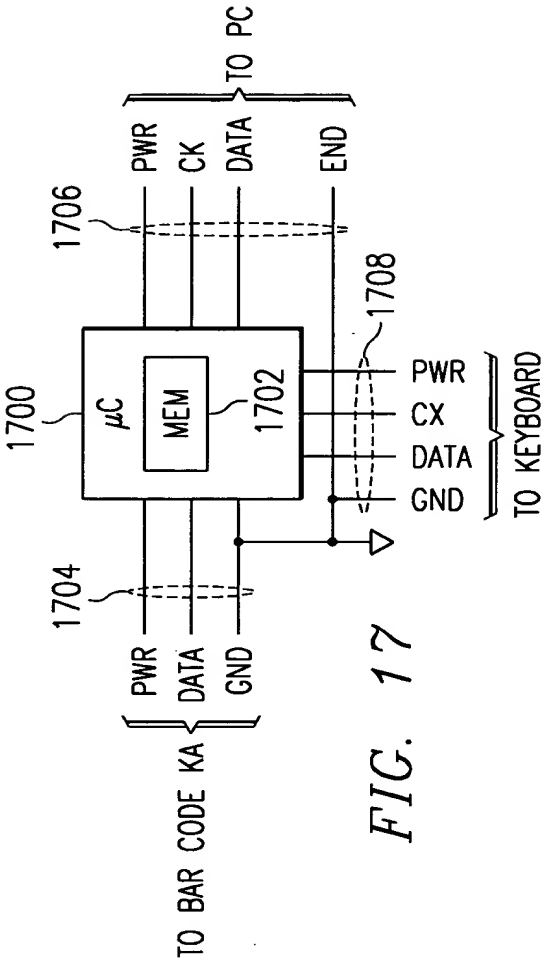


FIG. 17

FIG. 19

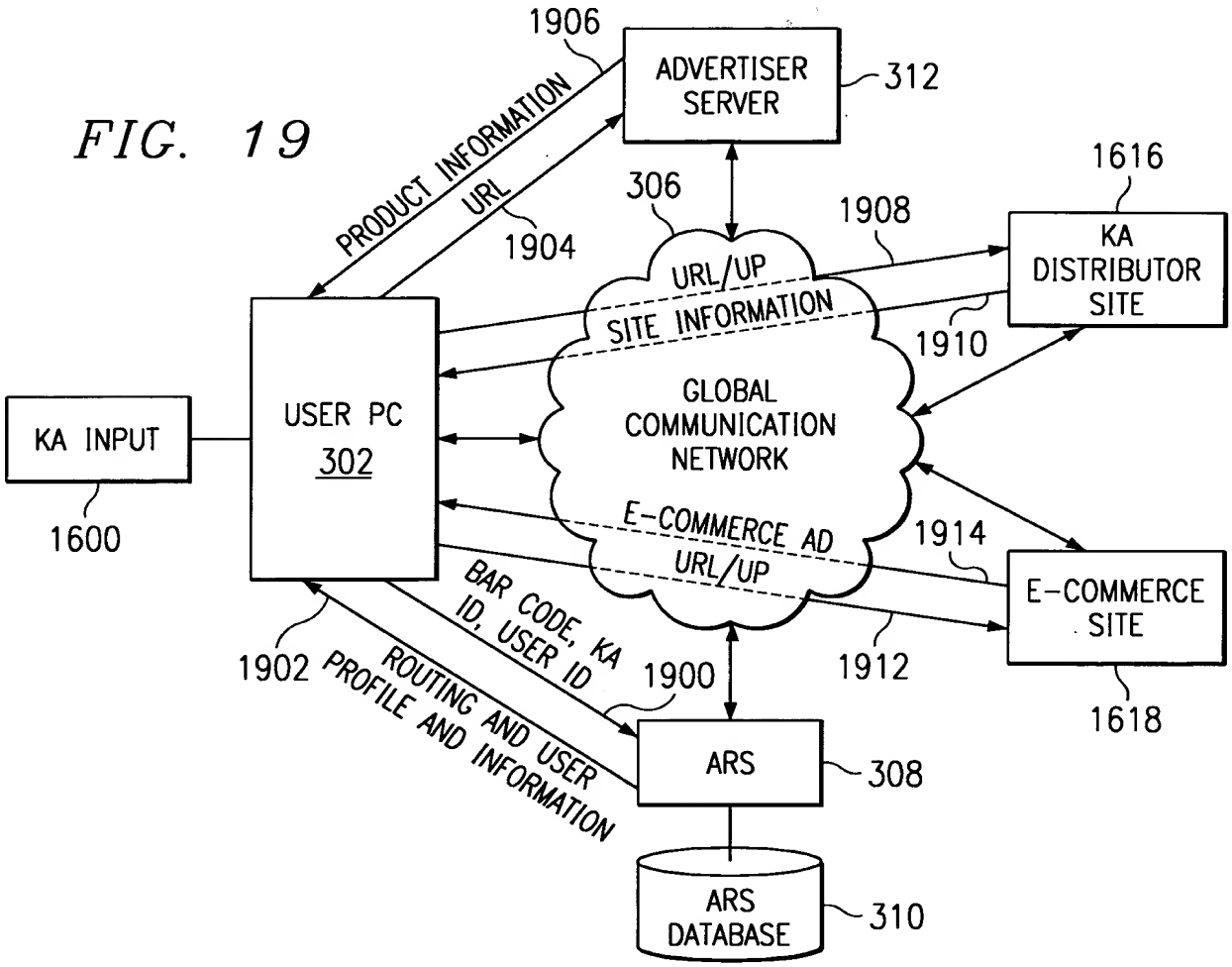

1906
ADVERTISER SERVER
312
PRODUCT INFORMATION
URL
1904
306
1908
1616
KA DISTRIBUTOR SITE
URL/UP
SITE INFORMATION
1910
GLOBAL COMMUNICATION NETWORK
KA INPUT
1600
USER PC
302
E-COMMERCE AD
URL/UP
1914
E-COMMERCE SITE
1618
BAR CODE, KA ID, USER ID
1902
ROUTING AND USER PROFILE AND INFORMATION
1900
1912
ARS
308
ARS DATABASE
310

FIG. 20

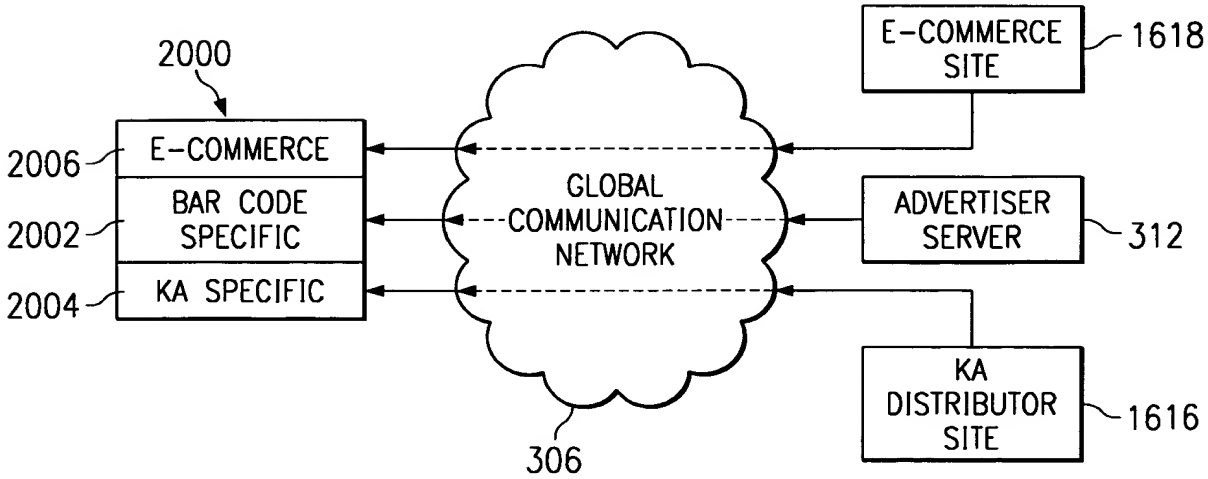

2000
E-COMMERCE
2006
BAR CODE SPECIFIC
2002
KA SPECIFIC
2004
GLOBAL COMMUNICATION NETWORK
306
E-COMMERCE SITE
1618
ADVERTISER SERVER
312
KA DISTRIBUTOR SITE
1616

FIG. 21

ARS DATABASE
2100

2102		2104		2106	2108	
PRODUCT		KA		USER	E-COMMERCE	
BAR CODE	ROUTE	ID	DISTRIBUTOR	PROFILE	BAR CODE	INFORMATION

FIG. 22

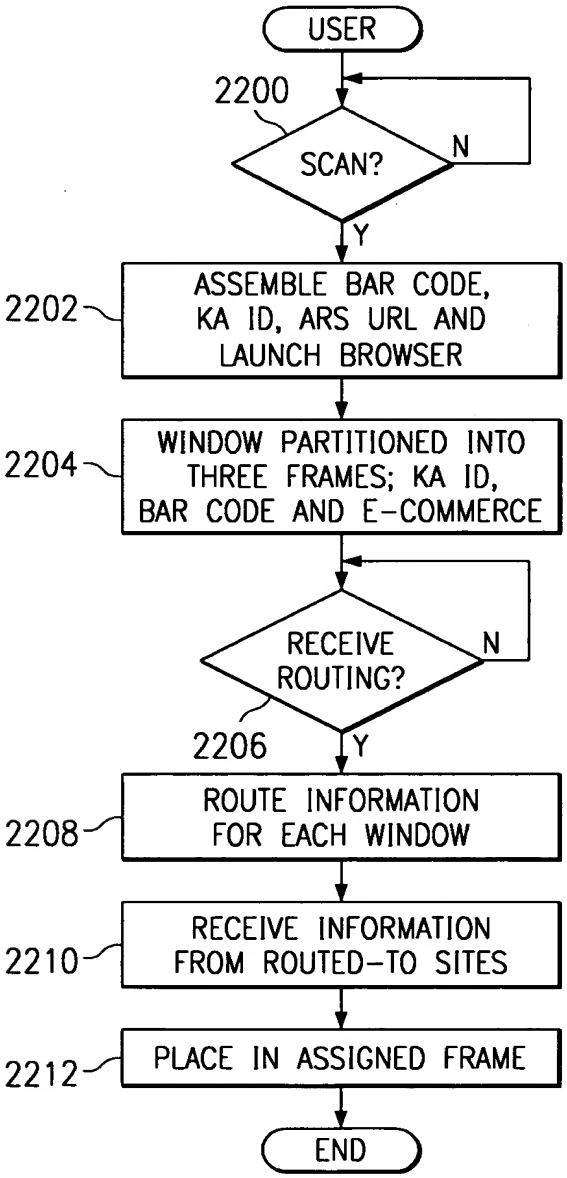


FIG. 23

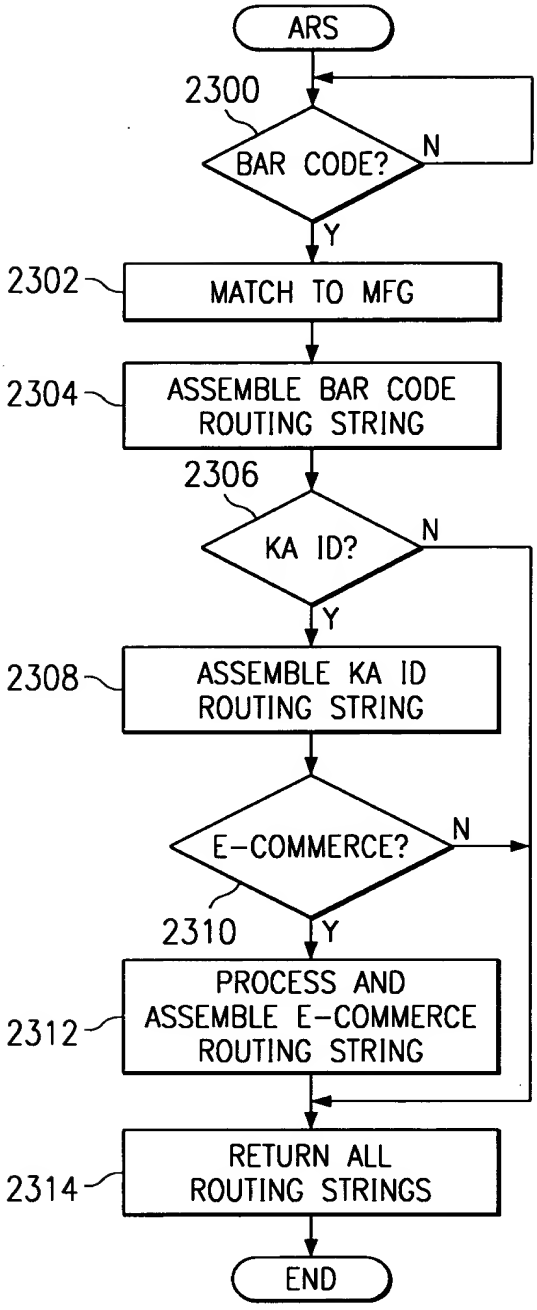
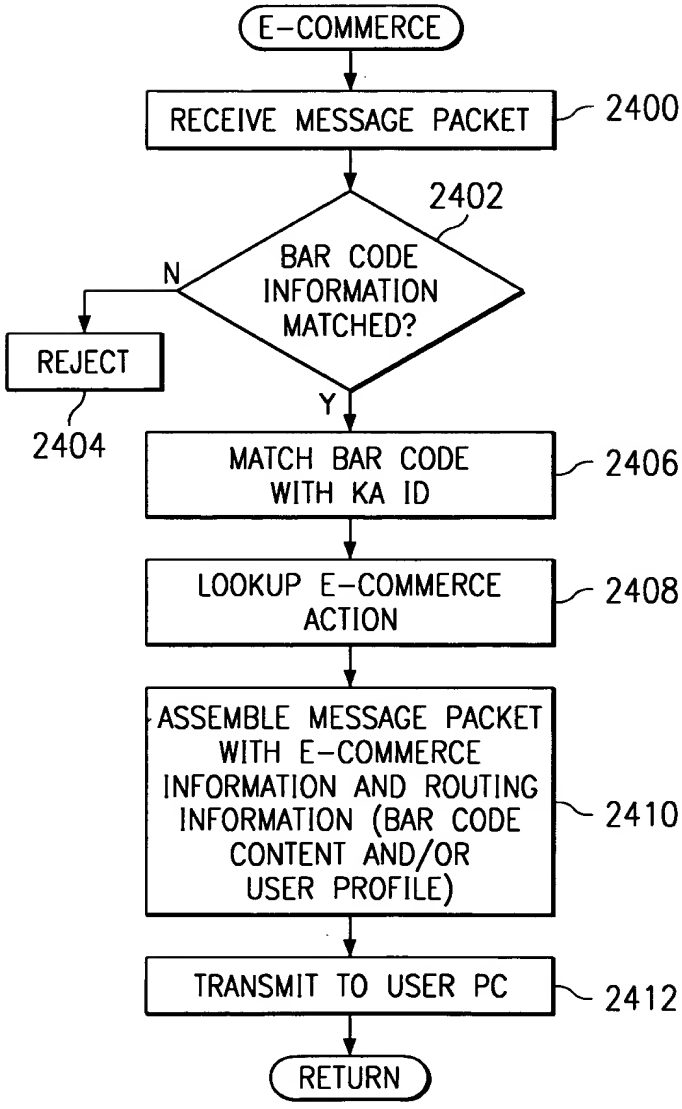

ARS
2300
BAR CODE?
N
Y
2302
MATCH TO MFG
2304
ASSEMBLE BAR CODE ROUTING STRING
2306
KA ID?
N
Y
2308
ASSEMBLE KA ID ROUTING STRING
E-COMMERCE?
N
2310
Y
2312
PROCESS AND ASSEMBLE E-COMMERCE ROUTING STRING
2314
RETURN ALL ROUTING STRINGS
END

FIG. 24


E-COMMERCE
RECEIVE MESSAGE PACKET
2400
2402
BAR CODE INFORMATION MATCHED?
N
REJECT
2404
Y
MATCH BAR CODE WITH KA ID
2406
LOOKUP E-COMMERCE ACTION
2408
ASSEMBLE MESSAGE PACKET WITH E-COMMERCE INFORMATION AND ROUTING INFORMATION (BAR CODE CONTENT AND/OR USER PROFILE)
2410
TRANSMIT TO USER PC
2412
RETURN

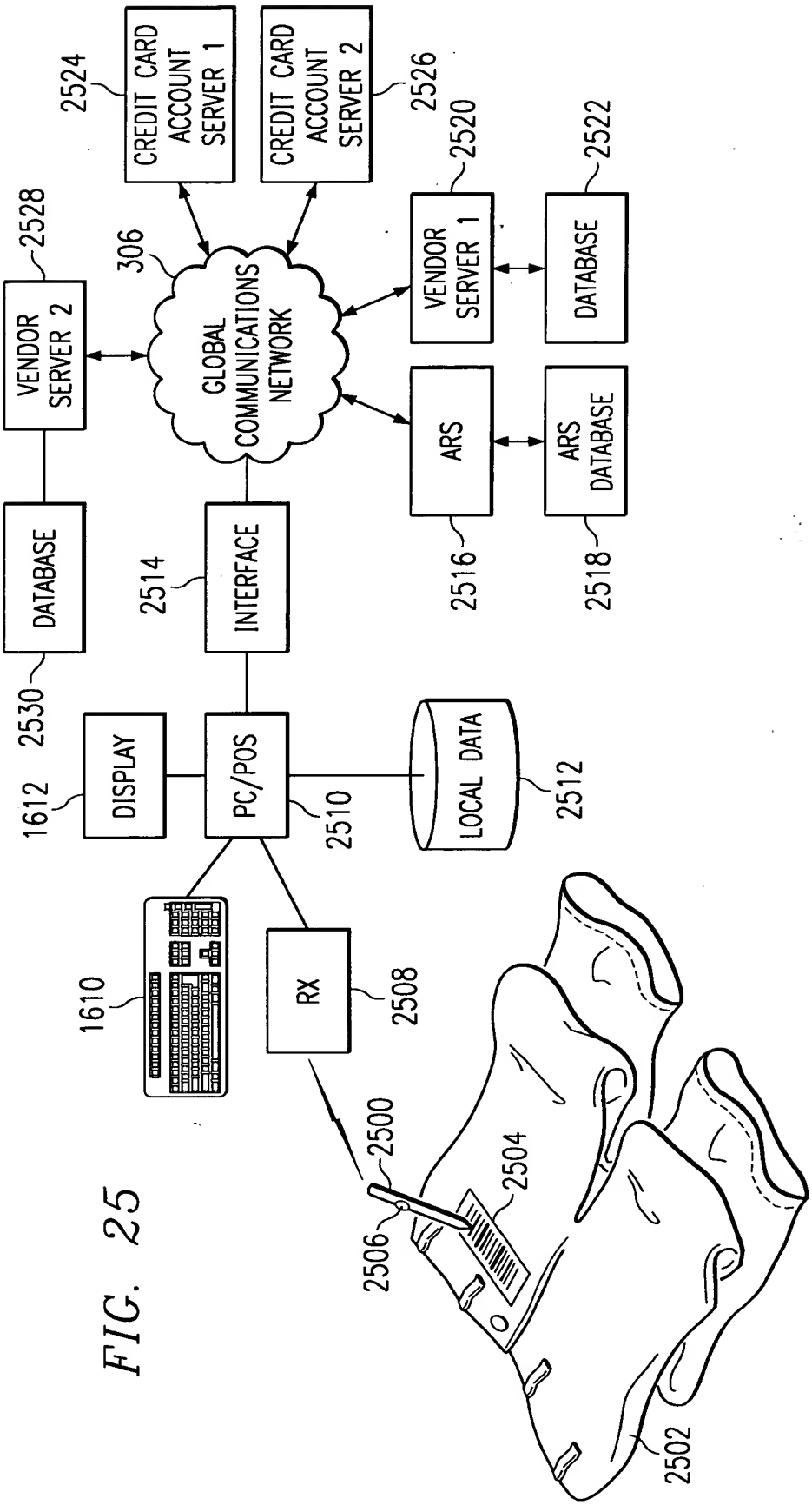

CREDIT CARD ACCOUNT SERVER 1
2524
CREDIT CARD ACCOUNT SERVER 2
2526
VENDOR SERVER 1
2520
DATABASE
2522
2528
306
GLOBAL COMMUNICATIONS NETWORK
VENDOR SERVER 2
ARS
2516
ARS DATABASE
2518
DATABASE
2530
2514
INTERFACE
1612
DISPLAY
PC/POS
2510
LOCAL DATA
2512
1610
RX
2508
2500
2504
2506
2502

FIG. 25

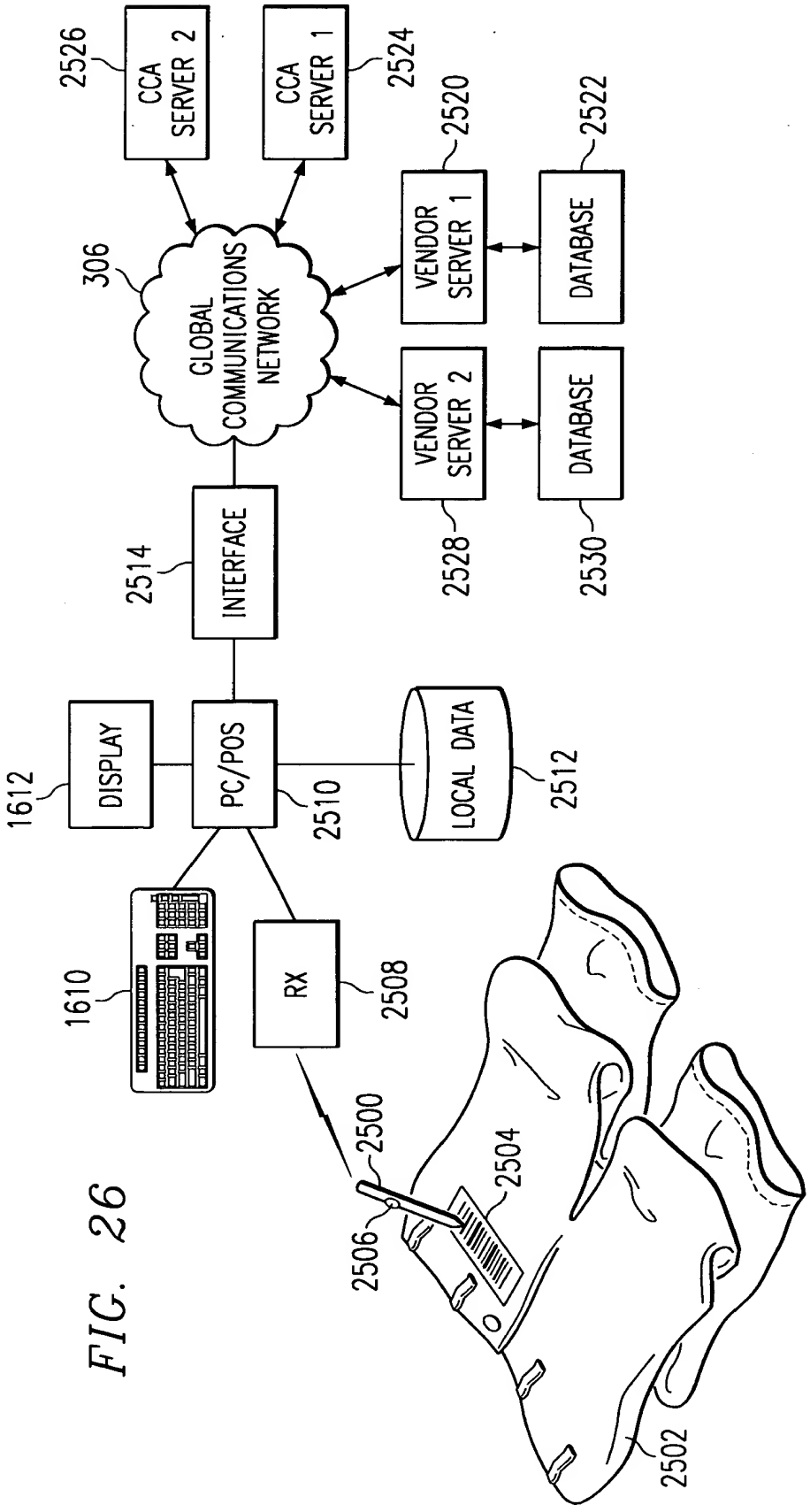

2526
CCA SERVER 2
CCA SERVER 1
2524
2520
VENDOR SERVER 1
2522
DATABASE
306
GLOBAL COMMUNICATIONS NETWORK
VENDOR SERVER 2
DATABASE
2514
INTERFACE
2528
2530
1612
DISPLAY
PC/POS
2510
LOCAL DATA
2512
1610
RX
2508
2500
2504
2506
2502

FIG. 26

FIG. 27

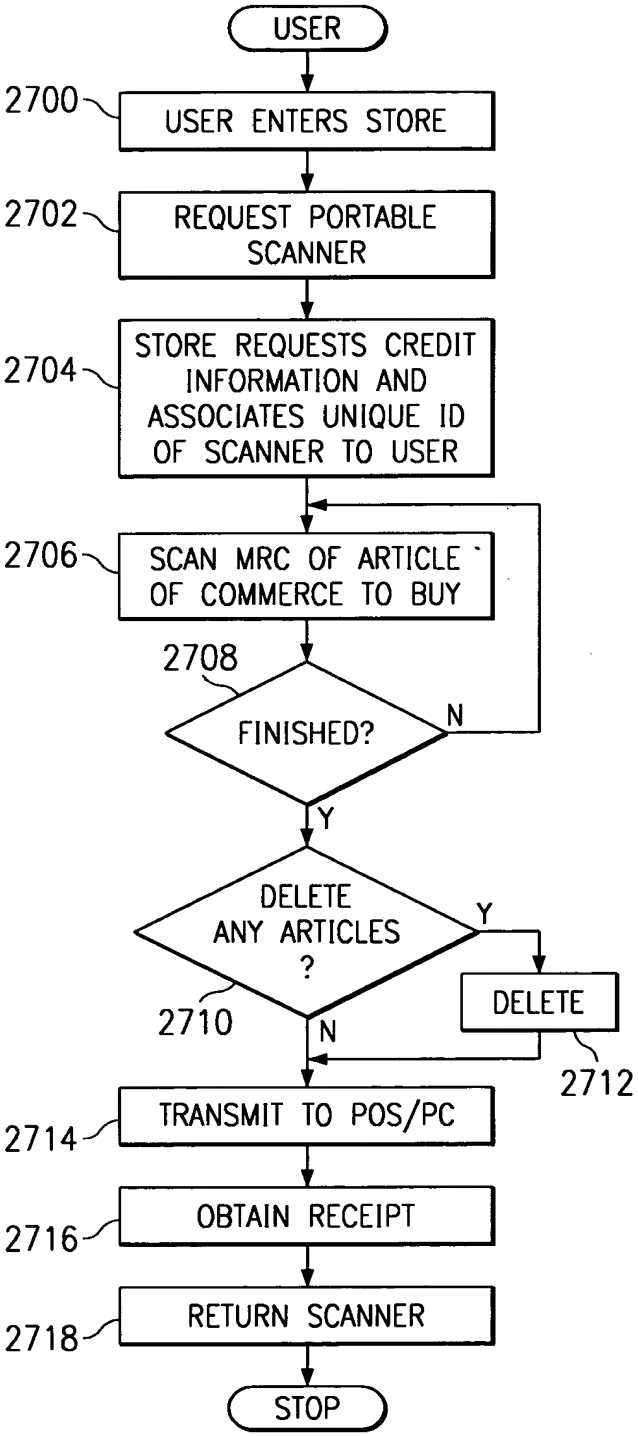

USER
2700
USER ENTERS STORE
2702
REQUEST PORTABLE SCANNER
2704
STORE REQUESTS CREDIT INFORMATION AND ASSOCIATES UNIQUE ID OF SCANNER TO USER
2706
SCAN MRC OF ARTICLE OF COMMERCE TO BUY
2708
FINISHED?
N
Y
DELETE ANY ARTICLES ?
Y
2710
DELETE
2712
N
2714
TRANSMIT TO POS/PC
2716
OBTAIN RECEIPT
2718
RETURN SCANNER
STOP

FIG. 28

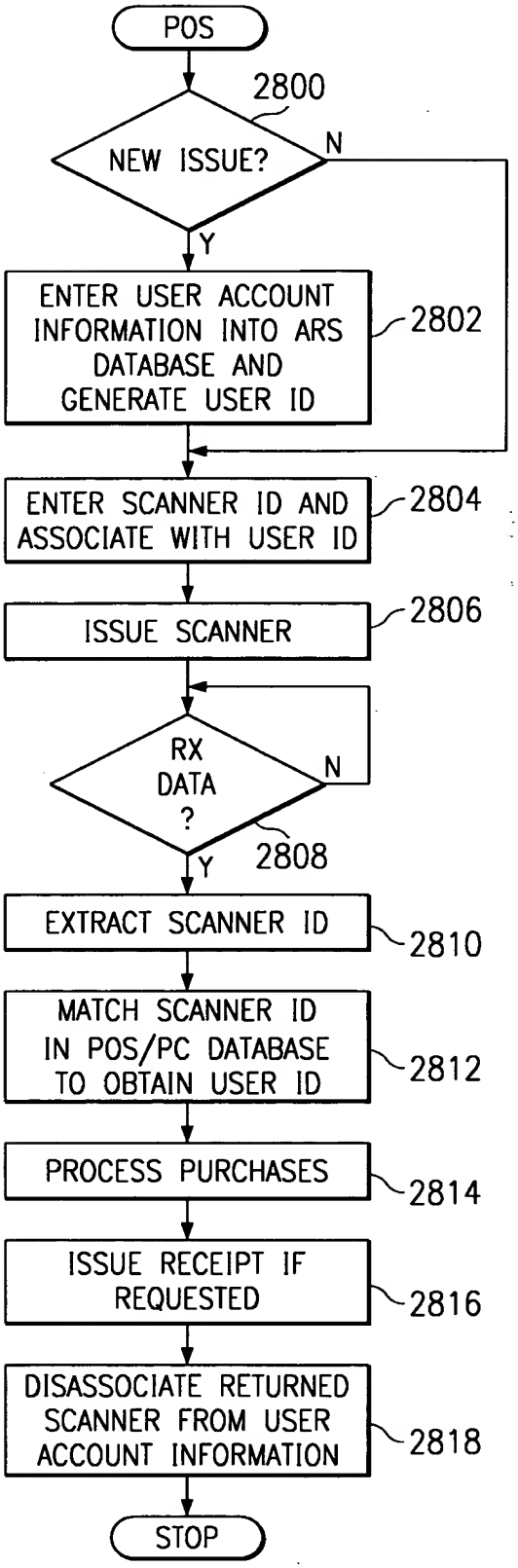

POS
2800
NEW ISSUE?
N
Y
ENTER USER ACCOUNT INFORMATION INTO ARS DATABASE AND GENERATE USER ID
2802
ENTER SCANNER ID AND ASSOCIATE WITH USER ID
2804
ISSUE SCANNER
2806
RX DATA ?
N
Y
2808
EXTRACT SCANNER ID
2810
MATCH SCANNER ID IN POS/PC DATABASE TO OBTAIN USER ID
2812
PROCESS PURCHASES
2814
ISSUE RECEIPT IF REQUESTED
2816
DISASSOCIATE RETURNED SCANNER FROM USER ACCOUNT INFORMATION
2818
STOP

FIG. 29

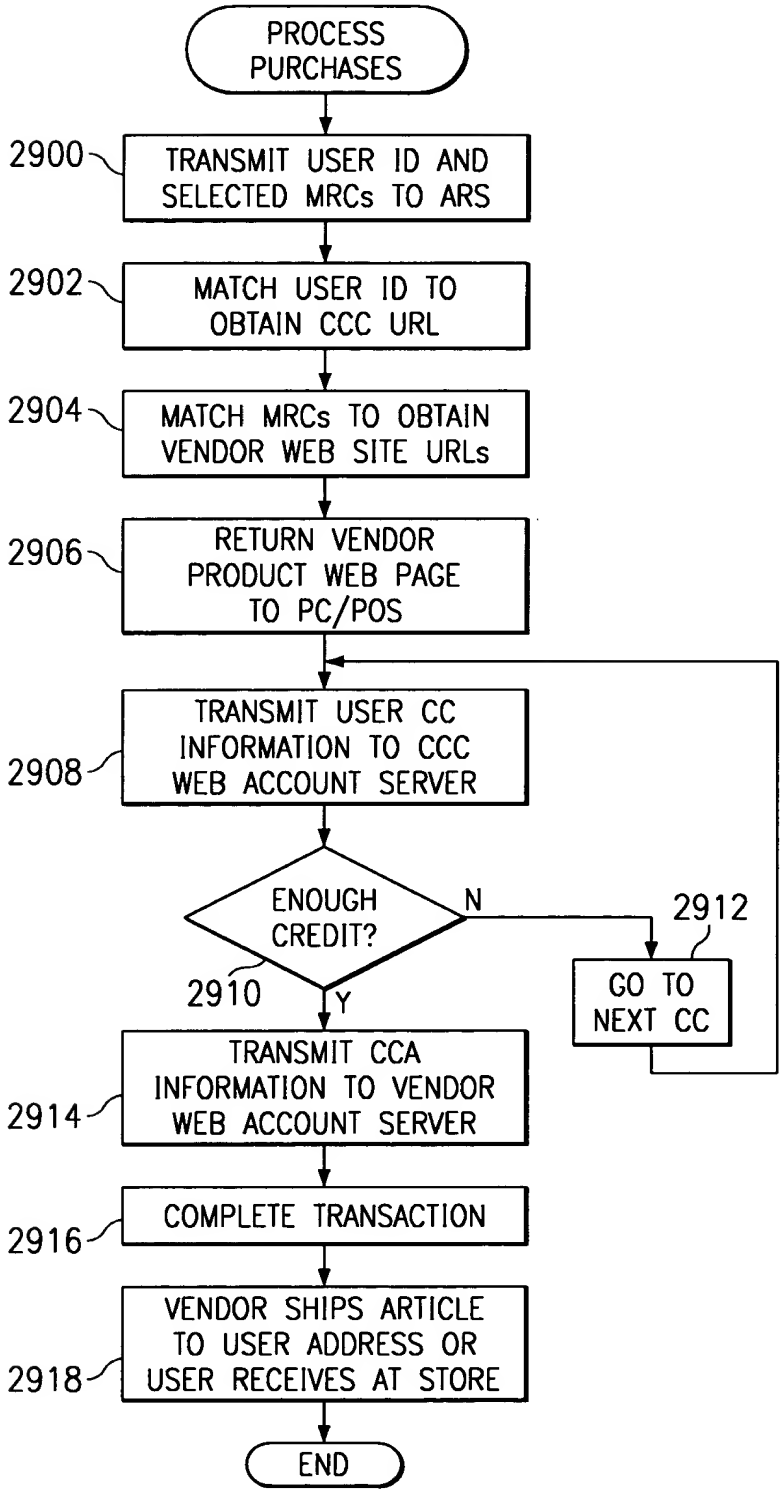

PROCESS PURCHASES
2900
TRANSMIT USER ID AND SELECTED MRCs TO ARS
2902
MATCH USER ID TO OBTAIN CCC URL
2904
MATCH MRCs TO OBTAIN VENDOR WEB SITE URLs
2906
RETURN VENDOR PRODUCT WEB PAGE TO PC/POS
2908
TRANSMIT USER CC INFORMATION TO CCC WEB ACCOUNT SERVER
ENOUGH CREDIT?
2910
N
2912
GO TO NEXT CC
Y
2914
TRANSMIT CCA INFORMATION TO VENDOR WEB ACCOUNT SERVER
2916
COMPLETE TRANSACTION
2918
VENDOR SHIPS ARTICLE TO USER ADDRESS OR USER RECEIVES AT STORE
END

FIG. 30

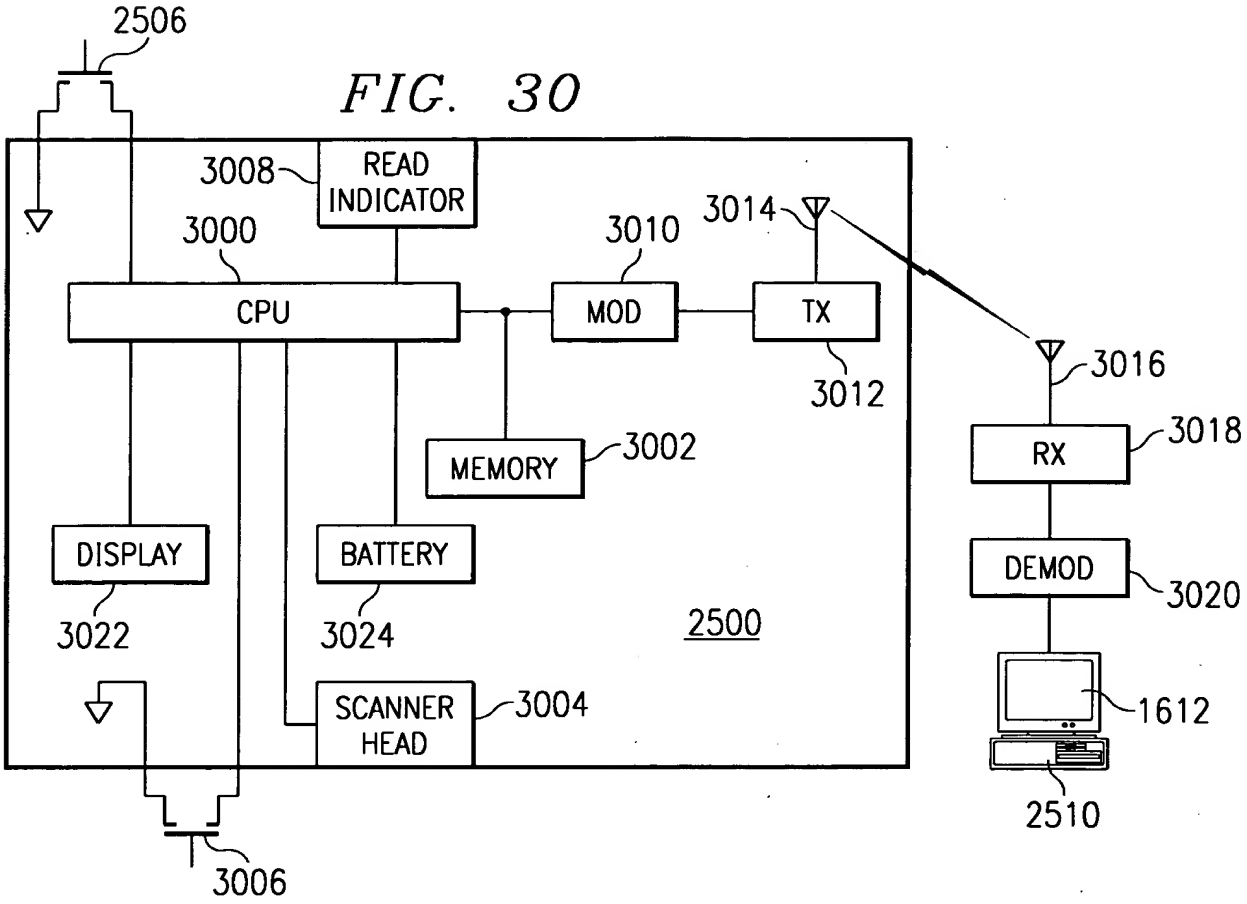


FIG. 31

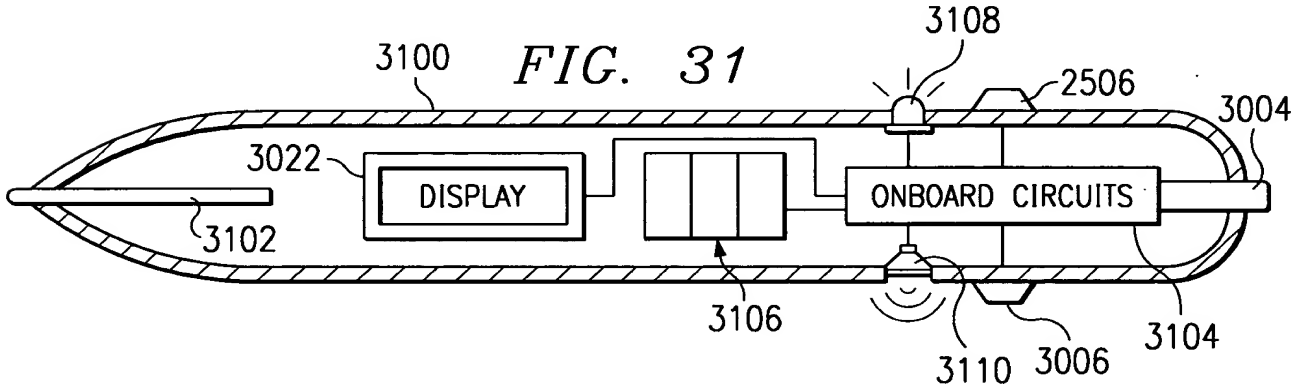


FIG. 32

3200 MRC DATA	3202 USER ID	3204 ACCOUNT INFORMATION	3206 VENDOR URL	3208 CC1 URL	3210 CC2 URL